

## ABSTRACT

The object of the present invention is to achieve excellent reforming ability even at lower temperatures, with a dimethyl ether steam reforming catalyst.

According to the present invention, there is provided a dimethyl ether steam reforming catalyst capable of steam-reforming dimethyl ether to obtain hydrogen, comprising active alumina, Cu, and at least one element selected from the group consisting of Mn and Fe, the catalyst being prepared by a sol-gel method, and the catalyst having a porous structure.